

**REMARKS**

Please reconsider the application in view of the above amendments and the following remarks. Applicant thanks the Examiner for the courtesy of the Examiner interview conducted on June 29, 2005.

**Change of Attorney Docket Number**

Applicant respectfully requests that the Attorney Docket Number be changed from "0007056-0202/P5945" to "16159/099001; P5945".

**Disposition of Claims**

Claims 1-10 are pending in this application. Claims 1 and 6 are independent. The remaining claims depend, directly or indirectly, from claims 1 and 6.

**Claim Amendments**

Claims 1 and 6 have been amended consistent with discussions during the interview dated June 29, 2005, to include the limitation "wherein arguments of said superfunction and said derived function are the same" and further amendments to clarify the present invention. Support for these amendments may be found, for example, on page 15, and page 16 lines 13-26. Applicant asserts no new subject matter has been added by way of these claim amendments.

**Rejections under 35 U.S.C. §102(b)**

Claims 1-10 stand rejected under 35 U.S.C. § 102(b) as being anticipated by U.S. Patent No. 5,696,974 ("Agrawal"). To the extent this rejection applies to the amended claims, this rejection is respectfully traversed.

For anticipation under 35 U.S.C. §102, the reference must teach every aspect of the claimed invention either explicitly or impliedly. As stated above, claims 1 and 6 have been amended to include the limitation "wherein arguments of said superfunction and said derived function are the same." The only reference to the arguments of two functions in Agrawal is the call

to *Order* in *CheckConsistency* (col. 16, ll. 46-64). The functions *Order* and *CheckConsistency* have different arguments (col. 16, ll. 46-64). Therefore, Agrawal clearly fails to teach that arguments of the superfunction and the derived function are the same as recited in the amended claims.

Further, the Examiner states that it is unclear that a call and a return nature of a function cannot denote an inheritance relationship because the Microsoft Computer Dictionary states: inheritance is “the transfer of the characteristics of a class in object-oriented programming to other classes *derived* from it...” (See Office Action mailed May 18, 2005, p. 4).

However, Applicant asserts that “to derive” denotes an inheritance relationship (e.g., a derived function inherits from a superfunction). Specifically, the Webopedia dictionary defines a *derived* class as “a class that was created based on a previously existing class (i.e., base class). A derived class *inherits* all of the member variables and methods of the base class from which it is derived.” (See attached Webopedia definition, accessed at <http://www.webopedia.com/>). Further, the Foldoc computer dictionary states, “in object-oriented programming, a class that is *derived* from a base class by inheritance. The derived class contains all the features of the base class, but may have new features added or redefine existing features.” (See attached Foldoc definition, accessed at <http://foldoc.doc.ic.ac.uk/foldoc/index.html>). Even the Merriam-Webster dictionary states that to derive is defined as “to obtain actually or theoretically from a parent substance.” (See attached Merriam-Webster Online Dictionary definition, accessed at <http://www.m-w.com/>).

Additionally, in the instant specification, a derived function is defined as a “function-type object that inherits from another function-type object.” (See, e.g., p.15 of the Instant Specification). Accordingly, because the term *derive* as recited in the claims, the specification, and as used by those with ordinary skill in the art, is specifically directed toward inheritance and does not merely refer to using the functionality provided by another function as asserted by the Examiner, there is a clear difference between a call return nature of a function and inheritance.

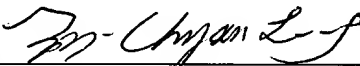
In view of the above, it is clear Agrawal fails to support the rejection of claims 1 and 6. Dependent claims 2-5 and 7-10 are allowable for at least the same reasons. Withdrawal of this rejection is respectfully requested.

### Conclusion

Applicant believes this reply is fully responsive to all outstanding issues and places this application in condition for allowance. If this belief is incorrect, or other issues arise, the Examiner is encouraged to contact the undersigned or his associates at the telephone number listed below. Please apply any charges not covered, or any credits, to Deposit Account 50-0591 (Reference Number 16159/099001; P5945).

Dated: August 18, 2005

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Attachments (3 pages)

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## derived class

Last modified: Wednesday, March 12, 2003

A class that was created based on a previously existing class (i.e., base class). A derived class inherits all of the member variables and methods of the base class from which it is derived.

Also called a *derived type*.

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## derived class

<programming> (Or "subclass") In object-oriented programming, a class that is derived from a base class by inheritance. The derived class contains all the features of the base class, but may have new features added or redefine existing features.

The synonym "subclass" is possibly confusing since the derived class has a superset of the base class's features.

Compare derived type.

(2001-09-14)

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**Nearby terms:** DER « dereference « de-rezz « **derived class** » derived type » DES » descender

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## Merriam-Webster Online Dictionary

One entry found for **derive**.Main Entry: **de·rive** ˈdɪ·rɪv

Pronunciation: di-'rɪv, dɛ-

Function: *verb*Inflected Form(s): **de·rived**; **de·riv·ing**

Etymology: Middle English, from Middle French *deriver*,  
from Latin *derivare*, literally, to draw off (water), from *de-*  
+ *rivus* stream -- more at [RUN](#)

*transitive senses*

**1 a** : to take, receive, or obtain especially from a specified  
source **b** : to obtain (a chemical substance) actually or  
theoretically from a parent substance

**2** : **INFER**, **DEDUCE****3** *archaic* : **BRING****4** : to trace the derivation of

*intransitive senses* : to have or take origin : come as a  
derivative

**synonym** see [SPRING](#)**- de·riv·er** *noun*For [More Information on "derive"](#) go to [Britannica.com](#)Get the [Top 10 Search Results for "derive"](#)

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